

**IN THE CLAIMS**

1. **(currently amended)** A mobile communications service providing system in which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, wherein:

the server system comprising

an extracting unit extracting a ~~first~~-service profile corresponding to the mobile node described in a first format from a database for managing the ~~first~~-service profile which includes subscriber information of each user,

a service managing unit editing the ~~first~~-service profile extracted by said extracting unit ~~into a second service profile having a format~~ to obtain the same service profile described in a second format which includes control information for transmitting a packet that the mobile node communicates using a communication path established after completing of the location registration and the second format remaining the same irrespective to the kind of a service provided to a user, and

a distributing unit distributing the ~~second~~-edited service profile to the home agent and the foreign agent, and;

the home agent and the foreign agent comprising

a controlling unit determining a transfer destination of a packet according to the distributed information of the ~~second~~-edited service profile, and

the home agent and the foreign agent provide a service by using said controlling unit according to the ~~second~~edited service profile distributed from the server system.

2. **(currently amended)** The system according to claim 1, wherein the server system does not distribute a ~~second~~the edited service profile to the home agent and the foreign agent, if the mobile node does not request a value-added service, and the home agent and the foreign agent provide a fundamental service according to information that the home agent and the foreign agent themselves generate.

3. (original) The system according to claim 1, wherein:  
an address range available for a predetermined service is specified beforehand;  
a service profile including information representing the address range which is specified beforehand is set in the home agent and the foreign agent as a condition for extracting a corresponding packet from among received packets; and  
the server system assigns an address within the address range to the mobile node that requests the predetermined service.

4. **(currently amended)** The system according to claim 1, wherein:  
the server system includes a home server device which has a right to access the database in order to extract the ~~first~~ service profile for the mobile node, and a foreign server device which does not have such an access right; and  
the home server device distributes the ~~second~~edited service profile to the home agent and the foreign server device, and the foreign server device forwards the ~~second~~edited service profile to the foreign agent.

5. **(currently amended)** The system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the ~~first~~-service profile for the mobile node, and a foreign server device which does not have such an access right; and

the home server device distributes the ~~second~~-edited service profile to the foreign server device, and the foreign server device forwards the ~~second~~-edited service profile to the home agent and the foreign agent.

6. **(currently amended)** The system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the ~~first~~-service profile for the mobile node, and a foreign server device which does not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent when moving from a communication area of a first foreign agent to a communication area of the second foreign agent;

the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the foreign server device distributes the ~~second~~-edited service profile to the second foreign agent.

7. **(currently amended)** The system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the ~~first~~-service profile for the mobile node, and first and second foreign server devices which do not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, and the home server device when moving from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device;

the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the home server device distributes the ~~second~~edited service profile to the second foreign server device, which then forwards the ~~second~~edited service profile to the second foreign agent.

**8. (currently amended)** The system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract a ~~first~~the service profile for the mobile node, and first and second foreign server devices which do not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, the home server device, and the first foreign server device when moving from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device;

the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the home server device distributes the ~~second~~edited service profile to the second foreign server device, which then forwards the second service profile to the second foreign agent.

9. (original) The system according to claim 1, wherein:

upon receipt of the packet addressed to the mobile node from a correspondent node, the home agent distributes to the correspondent node a service profile for extracting a packet in which the mobile node is set as a destination; and

the correspondent node generates information for transmitting to the foreign agent a packet which is extracted according to the distributed service profile.

10. (original) The system according to claim 1, wherein

when providing a service for transferring to an arbitrary mobile node among a plurality of mobile nodes a packet with a virtual address assigned to the plurality of mobile nodes as a destination:

an address proxy server receiving the packet with the virtual address is arranged; and

the server system distributes to said address proxy server a service profile for extracting the packet with the virtual address is assigned and transferring the extracted packet to the particular mobile node among the plurality of mobile nodes, and also distributes to a foreign agent a service profile for transferring to the particular mobile node a packet addressed to the foreign agent which accommodates the particular mobile node.

11. **(currently amended)** A mobile communications service providing method with which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the

home agent and the foreign agent, and a mobile communications service is provided based on the registration, the method comprising:

extracting, by the server system, a ~~first~~-service profile corresponding to the mobile node described in a first format from a database for managing the ~~first~~-service profile which includes subscriber information of each user;

editing, by the server system, the extracted ~~first~~-service profile ~~into a second service profile having a format~~ to obtain the same service profile described in a second format which includes control information for transmitting a packet that the mobile node communicates using a communication path established after completing of the location registration and the second format remaining the same irrespective to the kind of a service provided to a user;

distributing the ~~second~~-edited service profile from the server system to the home agent and the foreign agent; and

controlling, by the home agent and the foreign agent, a transfer destination of a packet according to the distributed information of the ~~second~~-edited service profile and thereby providing a service by controlling according to the ~~second~~-edited service profile distributed from the server system.

12. **(currently amended)** A mobile communications service providing method with which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, the method comprising:

extracting, by the server system, a ~~first~~-service profile corresponding to the mobile node described in a first format from a database for managing the first service profile which includes subscriber information of each user;

editing, by the server system, the extracted ~~first~~-service profile ~~into a second service profile having a format~~ to obtain the same service profile described in a second format that is not dependent on a service type and which includes control information for transmitting a packet that the mobile node communicates using a communication path established after completing of the location registration and the second format remaining the same irrespective to the kind of a service provided to a user;

distributing the ~~second~~-edited service profile from the server system to the home agent and the foreign agent; and

controlling, by the home agent and the foreign agent, a transfer destination of a packet according to the distributed information of the ~~second~~-edited service profile and thereby providing a service according to the ~~second~~-edited service profile distributed from the server system.

13. **(currently amended)** A mobile communications service providing method used in a system which includes a database for managing a service profile which includes subscriber information of each user, a plurality of agents which can respectively accommodate a mobile node, and a server which extracts ~~a first~~-the service profile for the mobile node described in a first format and distributes the extracted service profile to the agents which accommodate the mobile node, and the plurality of agents respectively comprise a controlling unit, the method comprising:

the server editing the ~~first~~-service profile extracted from the database ~~into a second service profile having a format~~ to obtain the same service profile described in a second format

which includes control information for transmitting a packet that the mobile node communicates using a communication path established after completing of the location registration and the second format remaining the same irrespective to the kind of a service provided to a user, and distributes the ~~second~~-edited service profile to the agents which accommodate the mobile node; and

controlling a transfer destination of a packet according to the distributed information of the ~~second~~-edited service profile and thereby providing, by the agents which accommodate the mobile node, a service by using the controlling unit according to the ~~second~~-edited service profile.

14. **(currently amended)** A server system used in a mobile communications service providing system in which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the sever system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, said server system comprising:

an extracting unit extracting a ~~first~~-service profile for the mobile node described in a first format from a database for managing the ~~first~~-service profile which includes subscriber information of each user;

a service managing unit editing the ~~first~~-service profile extracted by said extracting unit into a second service profile having a format to obtain the same service profile described in a second format which includes control information for transmitting a packet that the mobile node communicates using a communication path established after completing of the



location registration and the second format remaining the same irrespective to the kind of a service provided to a user; and

a distributing unit distributing the ~~second~~edited service profile to the home agent and the foreign agent so that the home agent and the foreign agent provide a service by controlling a transfer destination of a packet according to the distributed service profile.

15. **(currently amended)** An agent device as a home agent or a foreign agent for use in a mobile communications service providing system in which location registration request information is transmitted from a mobile node to the home agent via the foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, said agent comprising:

a service-independent unit determining a processing method for a received packet according to header information of the received packet;

an individual service controlling unit using said service-independent unit according to a service profile being distributed either to a home agent or to a foreign agent and edited from a first format into a second format which includes control information for transmitting a packet that the mobile node communicates using a communication path established after completing of the location registration and the second format remaining the same irrespective to the kind of a service provided to a user; and

a packet controlling unit processing a packet according to a processing result of use of said service-independent unit,

said agent thereby determining a transfer destination of the packet according to the  
edited service profile and controlling the transfer of the packet.